

# 2018

## Rules, Regulations, Code of Conduct



Calgary Alberta Radio Control Auto Racers

1/1/2018

## RULES REGULATIONS CODE OF CONDUCT

Created and accepted CARCAR AGM September 2005.

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## 1. CODE OF CONDUCT

### 1.1. SCOPE

- 1.1.1. The code of conduct has been written and put into place to make sure the Calgary Alberta Radio Control Auto Racers ( CARCAR ) members enjoy their sport in a safe and fun environment.
- 1.1.2. The code has been written and put into place to ensure the club moves in a positive direction.
- 1.1.3. The code covers any person using any part of the track and or facilities during a CARCAR meeting.

### 1.2. BEHAVIOR

- 1.2.1. The CARCAR committee reserves the right to ask any person or persons to leave the premises if their behavior is considered inappropriate.

### 1.3. ALCOHOL/DRUGS

- 1.3.1. The use of illicit drugs is strictly prohibited. Being under the influence of illicit drugs is considered inappropriate.
- 1.3.2. The use of alcohol is strictly prohibited. Being under the influence of alcohol is considered inappropriate.
- 1.3.3. Any drug related items found at the club should not be touched. They should be reported to the committee who will use the appropriate procedures to remove the offending material.

### 1.4. PARTICIPATION

- 1.4.1. Race nights:
  - All members' are expected to assist on a regular basis with the following duties:
  - Setting up the track
  - Packing up equipment at the end of the night.
  - Sweeping bench tops, floors
  - Etc.
- 1.4.2. Working Projects: All members are expected to assist at working projects.

### 1.5. USE OF IMAGES

- 1.5.1 No member shall take images (still or moving) of club members and publish in any media without express permission of individuals or parents/guardians. Any member caught in breach of this regulation will be dealt with by the committee and reported to the appropriate authorities.
- 1.5.2 CARCAR may include images of individuals for promotional purposes only, provided prior consent is given.

### 1.6. SAFETY

- 1.6.1. Enclosed footwear only on the track area. No open toe sandals, thongs or bare feet.
- 1.6.2. No person shall go onto the track during a race. Only designated Marshals can access the track during a race, and only to retrieve cars.

1.6.3. An adult shall accompany children under the age of 16 years.

1.6.4. At the completion of the last race, all cars must be promptly removed from the track. Driving of cars is prohibited until the track area is cleared of volunteers who are packing up equipment.

### 1.7. HOUSE KEEPING

1.7.1. The Pitspace and track shall be cleaned of any Garbage that you may have accumulated during your visit. There are bins provided. Please take larger items such as pizza boxes home with you as the club has limited Garbage facilities.

### 1.8. THEFT or TAMPERING

1.8.1. Anyone found to be stealing will be dealt with by the committee and reported to the appropriate authorities.

1.8.2. Interfering or tampering with another members' car or equipment without express permission is strictly forbidden.

Offenders will be dealt with by the committee on a case by case basis. Penalties not limited to loss of points or suspension of membership.

### 1.9. VANDALISM

1.9.1. Anyone found to be vandalizing the facilities would be dealt with by the committee and or the appropriate authorities.

### 1.10. DISCIPLINE

1.10.1. Incidents that are detrimental to the CARCAR ethical standards or are contrary to this Code of Conduct shall, at the discretion of the committee, be disciplined as follows:

1st offence – Verbal warning.

2nd offence – Written warning.

3rd offence – to be decided by Committee.

Subsequent breaches will incur 4 then 26 weeks suspensions and could result in participant losing its membership privileges and not being allowed to participate at any CARCAR function for a set period of time decided by committee.

Offences will be recorded against the offender's membership record and do not expire.

### 1.11. PIT SPACES

1.11.1. Pits spaces must be kept clean, tidy and free from Garbage at all times. It is the Racers responsibility to maintain the pit space that they use.

1.11.2 Any items left in a pit space are done so at the Racers responsibility. The club takes no responsibility for any items left in pit spaces.

1.11.3. One pit space allocation per member.

## 2. REGULATIONS

### 2.1. MARSHALLING

\*\*\*\*note, Race Director at his/her discretion has the right to make any and all changes during race event(s) to the marshalling policy and procedure, that they deem in the best interest or safety of the that event or persons in attendance\*\*\*\*

2.1.1. Each and every competitor must marshal the race following their own. Exceptions may be granted by the committee on a case by case basis.

2.1.2. You may have a stand in marshal, but you must nominate that person to the race director before your next scheduled marshalling session.

2.1.3. You are required to marshal the following race after yours. It may be necessary to marshal additional races if a particular class has too few drivers to adequately marshal their following race.

2.1.4. Marshals are not required to repair cars on the track.

2.1.5. Track marshals only on the track during a race.

2.1.6. Marshals are not to walk away from their marshalling area to hand a non- functional car back to a Competitor. It is placed at the side of the track so the Competitor or a member of their pit crew can retrieve it.

2.1.7. Marshals are to get clear of the track as soon as possible after attending a car.

2.1.8. Marshals are to take extreme care when walking to and from the racetrack during a race.

2.1.9. Marshalling points are to be on the outsides of the track and in a position as not to put the marshal in danger of being hit by a competitor's car.

2.1.10. Marshals must not take food or drink on to the track area.

2.1.11. Smoking on the racetrack area is not permitted whilst marshalling.

2.1.12. Any competitor not fulfilling their marshalling duties without a good reason accepted by the race director shall receive the following penalty;

#### 2.1.12.1. Members

2.1.12.2. First offence of the season - Best points result of the night is excluded from the season total

2.1.12.3. Second offence of a season – Best meeting points result of the season is excluded from the season total

2.1.12.4. Third offence of a season – Best round in the championship points calculation is excluded. i.e. Of the best 12 round the highest points round is dropped and the sum of the remaining 11 rounds becomes the total.

#### 2.1.12.5. Non-Members

2.1.12.6. First offence – Verbal warning

2.1.12.7. Second offence – One month race suspension.

## 2.2. RESULTS

2.2.1. Results of each race will be posted upon the notice board upon completion of the race or as soon as practicable.

2.2.2. The results sheet will include time, laps and finishing positions where applicable.

2.2.3. Results must NOT be removed from the notice board. Any competitor who souvenirs any results will be penalized by the committee.

2.2.4. Current members will be awarded championship points during each racing season. Minimum of 4 races to be qualified for championships and 2 drops will be allowed. Season 1: October to December  
Season 2: January to march

Points will be allocated in each class based on overall finishing position for each completed mains of racing as follows:

1 <sup>st</sup>	100	7 <sup>th</sup>	94	13 <sup>th</sup>	88
2 <sup>nd</sup>	99	8 <sup>th</sup>	93	14 <sup>th</sup>	87
3 <sup>rd</sup>	98	9 <sup>th</sup>	92	15 <sup>th</sup>	86
4 <sup>th</sup>	97	10 <sup>th</sup>	91	16 <sup>th</sup> -and so on	85,84.....
5 <sup>th</sup>	96	11 <sup>th</sup>	90		
6 <sup>th</sup>	95	12 <sup>th</sup>	89	TQ	1 point

2.2.5. A driver must cross the start line to begin the first lap of the race to receive points for that race.

## 2.3. RADIO TRANSMITTERS

2.3.1. Radio transmitters shall be classified as either Type-1 or Type-2 as follows:

Type-1: 2.4 GHz

Type-2: All other radios (crystal or synthesised frequency)

All drivers using Type-2 radios must:

- Register and verify their frequency during race registration
- All testing involving radios must be conducted in the Control Room
- Not use radios outside their allocated race time except when testing as described above

## 2.4. FREQUENCIES

2.4.1. Each competitor must have a minimum of 3 frequencies (crystals) for Type-2 Radio Transmitters (see 2.3.1).

2.4.2. Allowances will be made for new members, but a grace period of 1 month applies.

2.4.3. If there is a frequency 'clash' in a particular race then it is the competitor's responsibility to rectify the 'clash'.

2.4.4. No driver is to have any particular frequency reserved. In case of irresolvable conflicts members take priority over non-members.

## 2.5. PROTESTS.

2.5.1. Competitors have the right to protest results or other competitors driving

2.5.2. Protests that relate to lap counting should be taken up with either the race director or the Chief lap counter. This shall be done within 10 minutes of the display of results.

2.5.3. If the driver is still not happy with the results a written protest along with a \$50 protest fee should be submitted to CARCAR committee. The matter will then be processed as a formal protest.

2.5.4. Formal protests must be done within 10 minutes after the display of results, in writing along with a \$50 protest fee. The protest fee is forfeited if the protest is not upheld but returned if justified.

2.5.5. The CARCAR committee processes protests. Their decision is final.

2.5.6. A minimum of 3 committee members are required to process the protest.

## 2.6. DRIVERS BRIEFING.

2.6.1. Drivers briefing will take place as soon as practicable on race night

2.6.2. All drivers are to attend the drivers briefing.

2.6.3. Drivers arriving late will be allowed to race only after seeing the race director

2.6.4. Drivers that are at the venue that do not attend the briefing may be ineligible to race

## 2.8. RACING.

2.8.1. Race entry fees must be paid prior to your first race.

2.8.2. Cars are not allowed to run solid bumpers

2.8.3. Any repairs to cars must be done in the designated areas. Repairs will not exempt you from marshalling.

2.8.4. The club will supply Transponders. The fine for not returning the transponders is \$50.00 per week. Clips are to be supplied by competitor

2.8.5. It is the competitors' responsibility to mount the transponder correctly, and in a location that will not damage the transponder

2.8.6. Cars that have their transponders fall off during a race will not have their laps counted until the transponder is replaced.

2.8.7. Competitors must return their transponder straight after their race. A penalty may apply to those who do not comply

2.8.8. In order to start the racing as per scheduled time drivers must have completed registration prior to the drivers briefing.

2.8.9. Once racing has commenced the time keeping system will not be 'paused' unless of extremely unusual circumstances. The start of any race will not be delayed due to cars not being ready to race.

2.8.10. Reverse is not to be used during any race

2.8.11. In case of less than 4 drivers entering a particular class the following will apply.

### 3 Drivers

The class will be allowed to run as normal so long as the drivers in that class can identify additional (guaranteed) marshals for the following race

This special situation (less than 4 drivers) will be allowed to occur for a maximum of 2 rounds in a season after which the committee will re-consider the viability of the class. The drivers must be present, prepared to register and willing to race to qualify for the above. "Phantom entries" will not be accepted.

### 3. CLASS SPECIFICATIONS

#### 3.1. GENERAL

3.1.1. In case of the rules below not allowing a specific modification it will be assumed to be DISALLOWED in all cases.

3.1.2. For all other technical specifications not listed below, cars and batteries must meet guidelines as per ROAR rule book.

#### 3.2. DIMENSIONS

3.2.1. For all touring car classes the maximum body width is 190mm. There are no width limits for Mini or F1 classes.

3.2.2. For touring car classes maximum wing chord is 40mm and two 20x40mm end plates may be fitted to the wing. The highest point of wing must be at or below the highest point of the roof line with the car ready to run and placed on a flat level surface.

Class	Race Time	Motor	ESC Timing	Battery	Tires	Weight (g)	Bodies
TC Stock	5	17.5	No	2S open	Open	1380	Roar TC
Tamiya Mini	5	Orca	Orca	2S open	Tamiya	1200	Mini Spec
12 <sup>th</sup> Stock	8	13.5	no	1S open	Open Foam	730	Roar 1/12
World GT	5	10.5	no	1S Open	WGT Foam	930	WGT Spec
TC Open	5	Open	yes	2S open	Open	1380	Roar TC
Formula 1	5	21.5	No	2S open	Open	1050	F1 scale **

\*\* please see below class structure for additional conditions

#### Tamiya Mini

Chassis - Any Tamiya M Chassis car - Assembled as per instruction manual. (IE: No FWD to RWD M-03 conversions) Unnecessary parts may be left off during assembly (IE: rolls bars on M-05, electronics trays) but no part may be sawed, cut, or milled from chassis.

Drivetrain - Open Diff and Drivetrain, maintaining the kit FDR. 16, 18 and 20 tooth pinions in M-03/M-05/M-06. **17, 19 & 21 tooth pinions in M-04.**

Hop Ups - All other Tamiya or aftermarket hop ups are permitted.



Motor/ESC - Spec Orca Q combo only, set to zero timing/boost (blinky mode must be active) or sealed Johnson/Mabuchi 27t silver can kit type motor. Open brushed ESC. No modifications to motors or ESCs permitted. Silver cans will not be permitted to advance beyond the C main.

Wheels/Tires - Tamiya branded mini sized tires and inserts only. Double stuffing not permitted. Any mini sized wheel.

Bodies - Open to any mini sized body with the following restrictions - No touring sedan and/or 12th scale type wedge/Can Am bodies. Bodies must be cut and painted along the factory body lines.

Battery - Any 2S, 7.4V, round edged, hard cased lipo pack that will fit the mini (IE: M-03) chassis (without modification to pack or chassis). Capacity limit of 5000mAh.

Minimum Weight - 1200g

## Touring Stock

Motor: 17.5 Brushless motor ROAR Approved

ESC: No ESC timing or boost. ESC must be on ROAR approved list (See Technical Inspections section for full details)

Battery: ROAR approved 2S Li-po hard case batteries only ( open battery for club racing, must be hard case )

Tires: Open tire

Weight: Minimum weight 1380g

Bodies: Top of wing on touring cars must be equal to or below the roofline in race ready position.

## World GT

**Motor: 10.5 Brushless motor ROAR Approved**

**ESC: No ESC timing or boost. ESC must be on ROAR approved list (See Technical Inspections section for full details)**

Battery: ROAR approved 1S Li-po hard case batteries only ( open batteries for club racing, hard case only )

Tires: WGT Spec tires

Weight: Minimum weight 930g

Maximum width 200 mm

Bodies: World GT spec bodies only

## Touring Open

Motor: Any 540 Size Motor

ESC: ESC timing and boost allowed.

Battery: ROAR approved 2S Li-po hard case batteries only ( open battery for club racing, hard case )

Tires: Open tire

Weight: Minimum weight 1380g

Bodies: Top of wing on touring cars must be equal to or below the roofline in race ready position.

## 1/12<sup>th</sup> Stock Pan Car

**Motor: 13.5 Brushless motor ROAR Approved**

**ESC: No ESC timing or boost. ESC must be on ROAR approved list (See Technical Inspections section for full details)**

Battery: ROAR approved 1S Li-po hard case batteries only ( open for club racing, hard case )

Tires: open foam

Weight: Minimum weight 730g

Bodies: 1/12 cars must run Can-Am/Lola style bodies.

## Formula 1

Motor: 21.5t ROAR Stock Spec

ESC: No ESC timing or boost. ESC must be on ROAR approved list (See Technical Inspections section for full details)

Battery: ROAR approved 2S Li-po hard case batteries only

Tires: Open Rubber F1 scale. 200mm cars must run narrow modern tires eg. F104 tires

Weight: Minimum weight 1050g

Bodies: F1 scale. Molded front/rear wings. No lexan wings

Width: 190mm max. 200mm cars may be run for this 2014-2015 season using narrow tires. This is not encouraged and may change for 2015

2016 rules

Drive: 2-wheel rear drive cars only

Wheelbase: 270mm max

Minimum Ride Height: 4mm

Suspension: All suspensions allowed, including IFS suspensions. All front suspension mounting points must be located entirely within the body shell (no pan-car front suspension systems). Adjustable link front ends are OK as long as the inner mount point is located within the body.

Driving Aids: None allowed

## 5. ETIQUETTE AND RACE CRAFT

These are to be read in conjunction with CARCAR regulations

5.1. If you are being lapped, allow the faster car to pass when safe, typically by slowing slightly and making a clear move off the racing line.

5.2. Do not drive into the back of car in front of you.

5.3. Do not crash into other cars on purpose!

5.4. If you are being passed, hold your line; do not weave from side to side.

5.5. All drivers should endeavor to be at their grid starting position by the 10 second count-down. Any car not on their grid by the 10 second alert must NOT enter the grid area. Further, they MUST be completely stationary prior to starting the race. A running start or an out of position car on the grid will cause accidents.

Failure to abide by any of the above guidelines may result in a Black Flag penalty at the discretion of the Race Director.

5.6. If you gain an unfair advantage because of a crash (jumping a barrier etc.) return to your original race position otherwise you will be penalized.

5.7. If your car is broken or has dumped, drive it to a safe area of the track as soon as possible. Do not continue to race.

5.8. Do not start a race if your car is broken!

5.9. If your car needs to be marshalled do not drive away from the marshal!

5.10. Release the throttle if your car needs marshalling. Marshals may choose not to get your car if you don't back off.

5.11. If you have been marshalled or have crashed be careful re-entering race, wait for cars to pass before pulling out.

5.12. At end of race, ("Race Time Over"), cross finish line, return to start safely and pull over

5.13. No shouting or foul language.

5.14. Be a fair and courteous driver.

## 6. GUIDELINES FOR MARSHALS

To be read in conjunction with ROAR regulations

6.1 Get into position before the start of race.

6.2 Spread around the track, do not gather in groups, and try to ensure a good coverage of likely crash areas (e.g. Bend #1).

6.3 Do not stay on the track longer than you have to. The drivers cannot see through you!

6.4 Watch your area NOT the race. 10 seconds is 1/2 a lap you've just cost someone!

- 6.5 Return cars to the race pointing in the right direction.
- 6.6 Marshal others as you would have them marshal you.
- 6.7 Do not leave your post during a race.
- 6.8 Do not return broken cars to the driver, they or their pit crew must come and get them.
- 6.9 Put runaway cars on their roof safely off the track.
- 6.10 No open footwear is allowed on the track.
- 6.11 No food or drink is to be taken onto track when Marshalling
- 6.12 Junior marshals MUST be accompanied by an adult.